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IN THE ABSTRACT:

Please amend the abstract as follows:

~~--This invention relates to the field of measurement methods A measurement method for determining the blood flow rate Q_F in blood carrying lines (40) is provided. It may be used in particular to determine the blood flow in a patient's vessel, which is connected to the extracorporeal circulation (2) of a blood treatment machine by an arterial line (14) and a venous line (15). According to the method this invention, the net rate dX/dt of a variable X is determined, with X being which is derived from a physicochemical variable Y of the blood with the help of values Y_A and Y_V which are adequately constant over time, these values characterizing and which respectively characterize the physicochemical property in the arterial line (14) and the venous line (15) during the measurement interval. The net rate dX/dt is then used to determine the blood flow rate Q_F . The targeted use of indicators is not necessary.--~~